



MMBD4448

Surface Mount Switching Diode



Voltage Range
75 Volts
350m Watts Power Dissipation

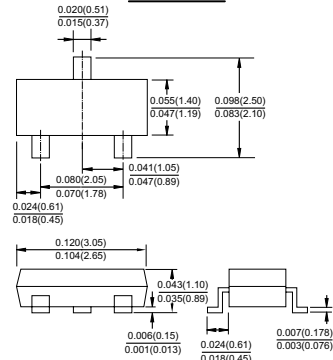
SOT-23

Features

- ✧ Fast switching speed
- ✧ Surface mount package ideally suited for automatic insertion
- ✧ For general purpose switching applications
- ✧ High conductance

Mechanical Data

- ✧ Case: SOT-23, Molded plastic
- ✧ Terminals: Solderable per MIL-STD-202, Method 208
- ✧ Polarity: See diagram
- ✧ Marking: KA3
- ✧ Weight: 0.008 gram (approx.)



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

Type Number	Symbol	MMBD4448	Units
Non-Repetitive Peak Reverse Voltage	VRM	100	V
Peak Repetitive Reverse Voltage	VRRM		
Working Peak Reverse Voltage	VRWM	75	V
DC Blocking Voltage	VR		
RMS Reverse Voltage	VR(RMS)	53	V
Forward Continuous Current (Note 1)	IFM	500	mA
Average Rectifier Output Current (Note 1)	Io	250	mA
Non-Repetitive Peak Forward Surge Current @ t=1.0uS @ t=1.0S	IFSM	4.0 2.0	A
Power Dissipation (Note 1)	Pd	350	mW
Thermal Resistance Junction to Ambient Air (Note 1)	RθJA	357	K/W
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 150	°C

Electrical Characteristics

Type Number	Symbol	Min	Max	Units
Forward Voltage IF=1.0mA IF= 10mA IF =50mA IF=150mA	VF	0.62	0.715 0.855 1.0 1.25	V
Peak Reverse Current VR=75V VR=75V, Tj=150°C VR=25V, Tj=150°C VR=20V	IR	-	2.5 50 30 25	uA nA
Junction Capacitance VR=0, f=1.0MHz	Cj	-	4.0	pF
Reverse Recovery Time (Note 2)	trr	-	4.0	nS

Notes: 1. Valid Provided that Terminals are Kept at Ambient Temperature.

2. Reverse Recovery Test Conditions: IF=IR=10mA, Irr=0.1 x IR, RL=100Ω.

RATINGS AND CHARACTERISTIC CURVES (MMBD4448)

FIG.1- FORWARD CHARACTERISTICS

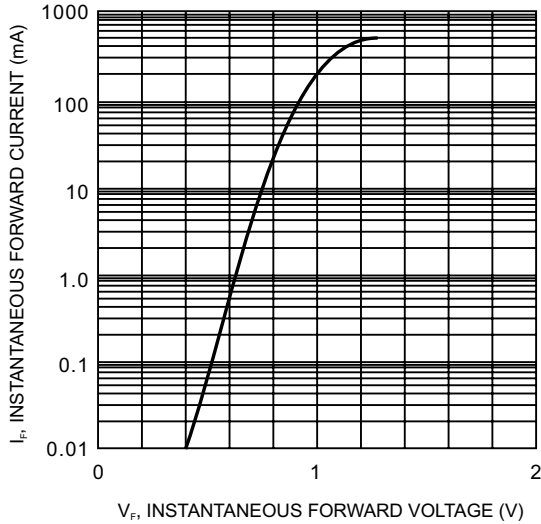
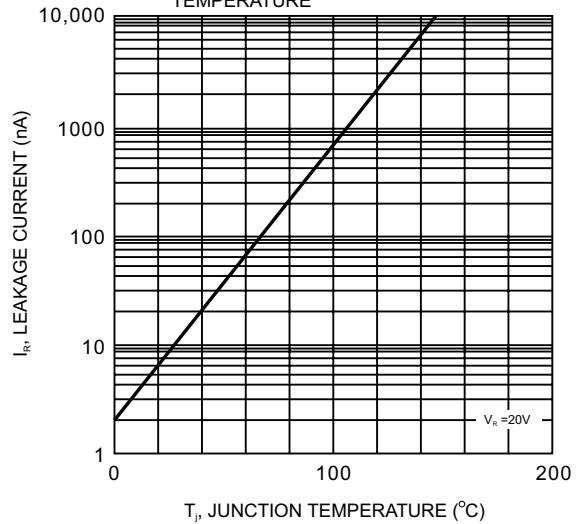


FIG.2- LEAKAGE CURRENT VS JUNCTION TEMPERATURE





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